LibreNMS Administration

Performance Tuning

- After LibreNMS installation it's recommended to optimizes the performance. In large scale monitoring environment, it provides fast and robust solution for entire IT.

RRDCached

- It reduces the IO load of monitoring server:

RRDCached installation CentOS 8

1: Create /etc/systemd/system/rrdcached.service with this content:

vi /etc/systemd/system/rrdcached.service

```
[Unit]
Description=Data caching daemon for rrdtool
After=network.service

[Service]
Type=forking
PIDFile=/run/rrdcached.pid
ExecStart=/usr/bin/rrdcached -w 1800 -z 1800 -f 3600 -s librenms -U librenms -G
    librenms -B -R -j /var/tmp -l unix:/run/rrdcached.sock -t 4 -F -b /opt/librenms/rrd/
[Install]
WantedBy=default.target
```

2: Start rrdcached

```
systemctl enable --now rrdcached.service
```

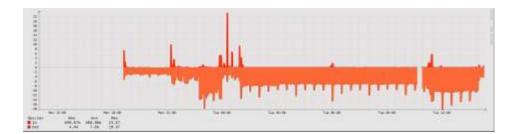
3: Edit /opt/librenms/config.php to include:

```
$config['rrdcached'] = "unix:/run/rrdcached.sock";
```

Verify:

Check to see if the graphs are being drawn in LibreNMS. This might take a few minutes. After at least one poll cycle (5 mins), check the LibreNMS disk I/O performance delta. Disk I/O can be found under the menu Devices>All Devices>localhost>Health>Disk I/O.

Depending on many factors, you should see the Ops/sec drop by ~30-40%.



Network-WeatherMap with LibreNMS

Integrating LibreNMS with Network-Weathermap, allows you to build network maps to help visualize network traffic flow rates.

Prerequisites

Network-WeatherMap requires php pear to work:

dnf install php-pear

Installing Network-WeatherMap

Step-1: Extract to your LibreNMS plugins directory /opt/librenms/html/plugins so you should see something like /opt/librenms/html/plugins/Weathermap/

The best way to do this is via git. Go to your install directory and then /opt/librenms/html/plugins

- # cd /opt/librenms/html/plugins
- # git clone https://github.com/librenms-plugins/Weathermap.git

Step-2: Inside the html/plugins directory, change the ownership and permission of the Weathermap directory:

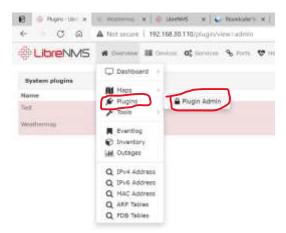
- # chown -R librenms:librenms Weathermap/
- # chmod 775 /opt/librenms/html/plugins/Weathermap/configs

Step-3: Enable the cron process by editing your current LibreNMS cron file (typically /etc/cron.d/librenms) and add the following:

vi /etc/cron.d/librenms

*/5 * * * * librenms /usr/bin/php /opt/librenms/html/plugins/Weathermap/map-poller.php >> /dev/null 2>&1

Step-4: Enable the plugin from LibreNMS Web UI in OverView ->Plugins -> Plugin Admin menu.

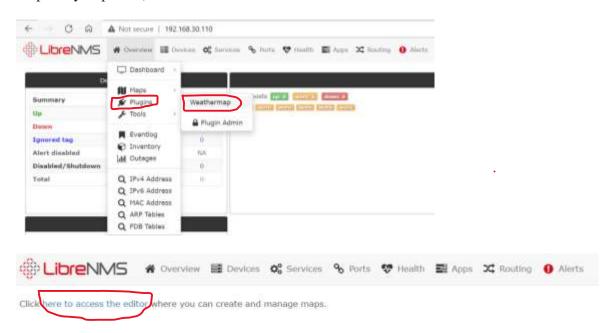


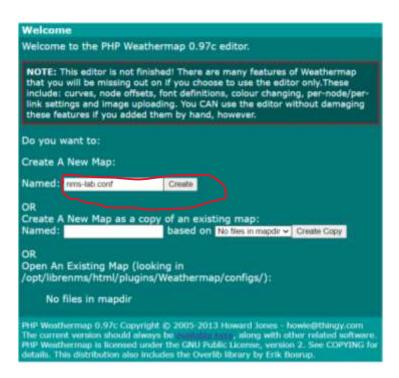


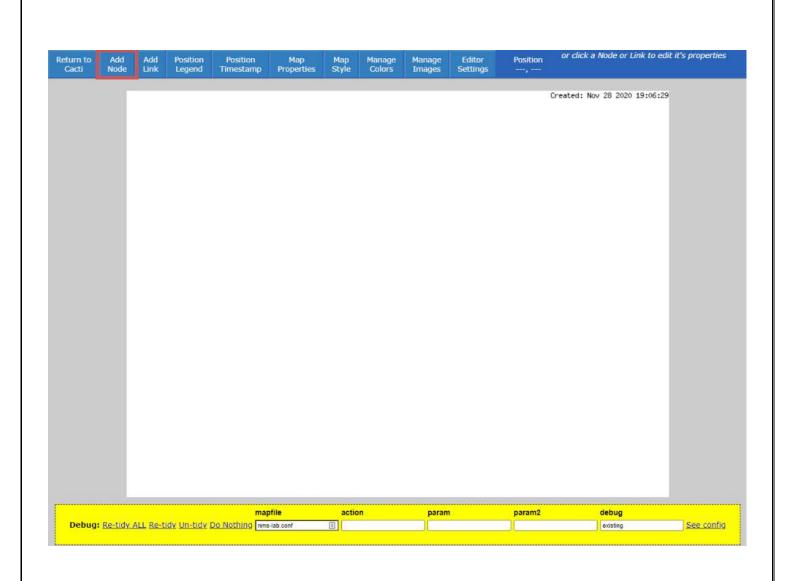
Step-5: Now you should see Weathermap Overview -> Plugins -> Weathermap

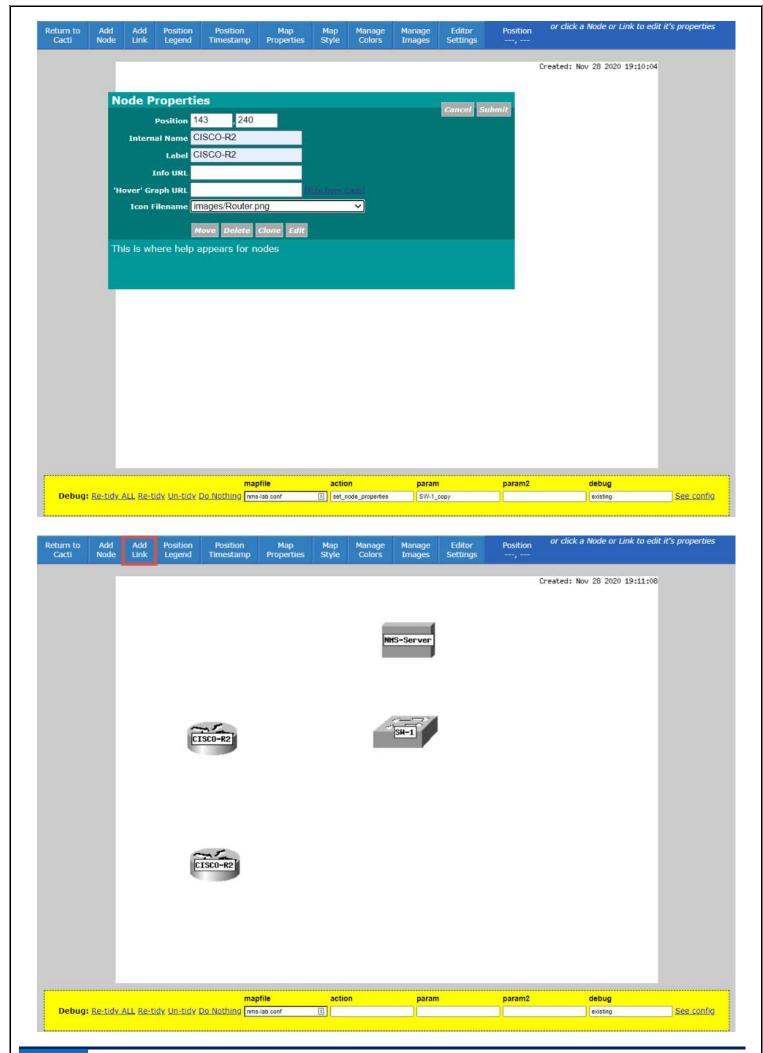
Create your maps, please note when you create a MAP, please click Map Style, ensure Overlib is selected for HTML Style and click submit.

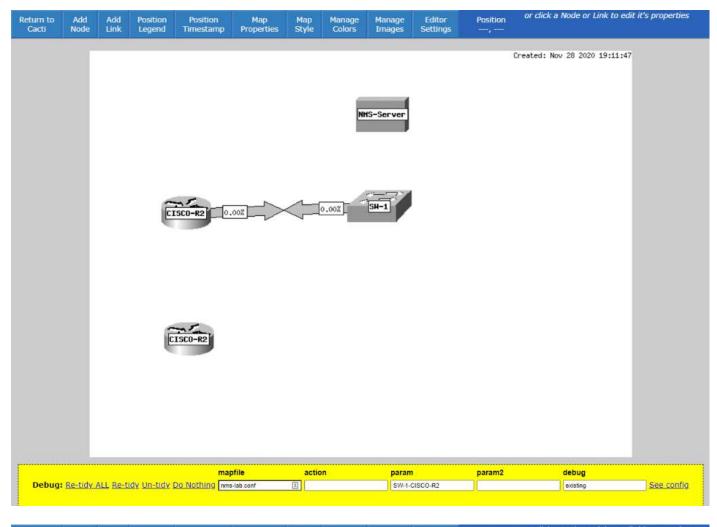
Also, ensure you set an output image filename and output HTML filename in Map Properties. I'd recommend you use the output folder as this is excluded from git updates (i.e enter output/mymap.png and output/mymap.html).

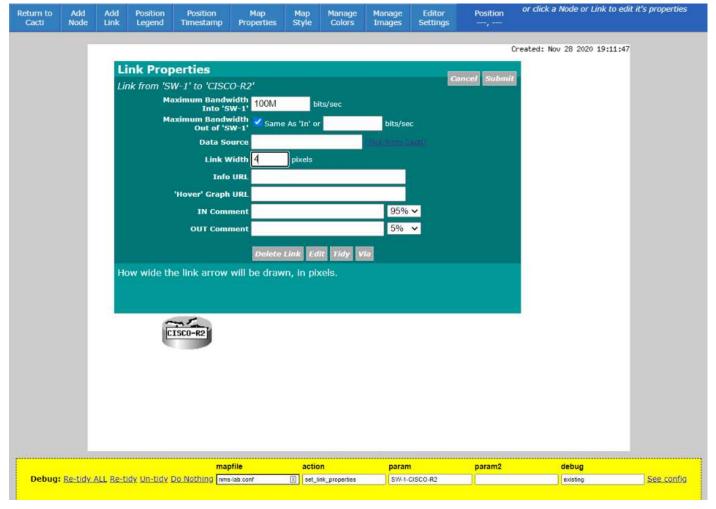


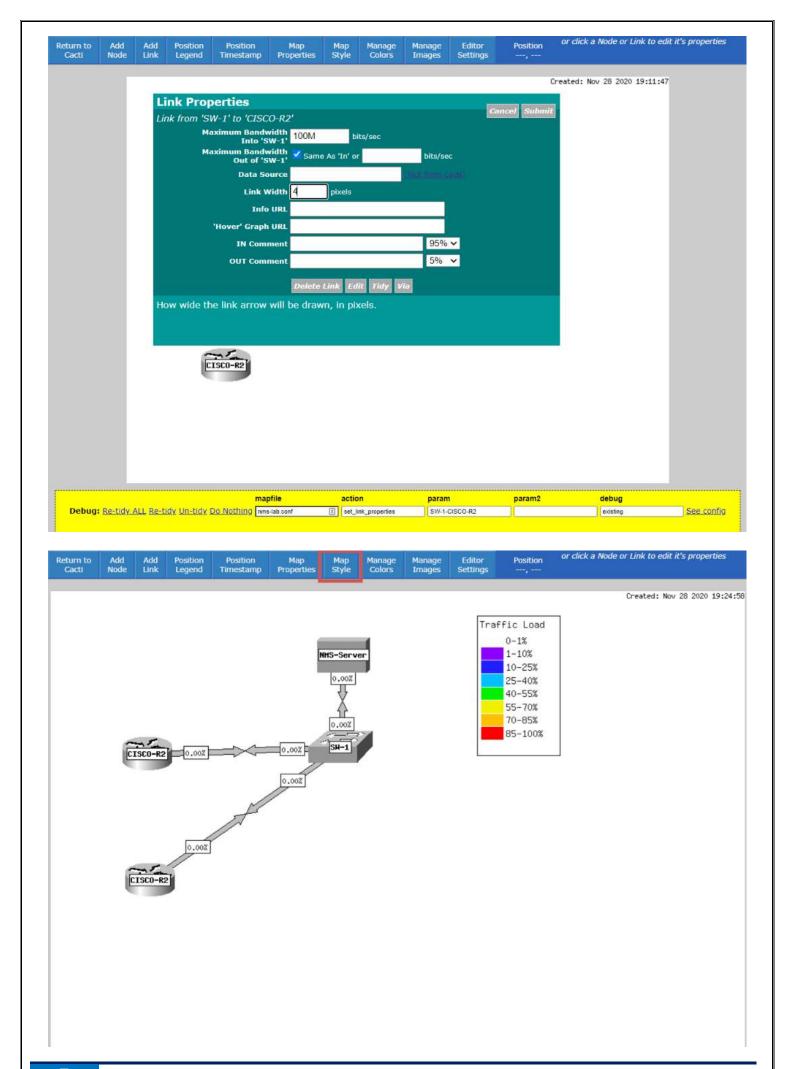


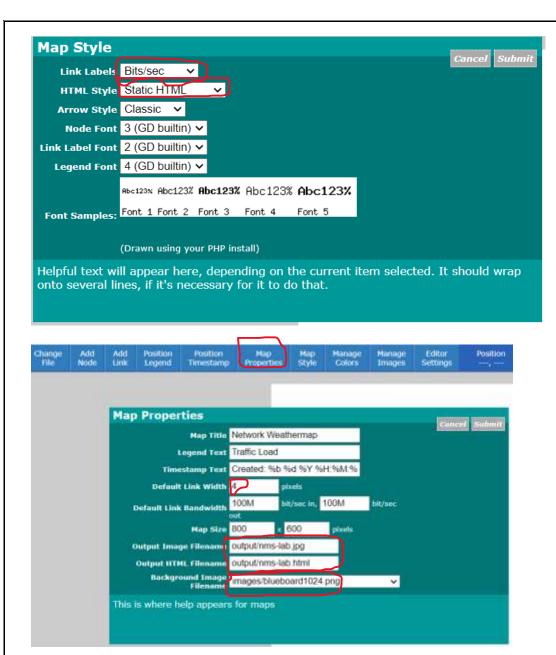


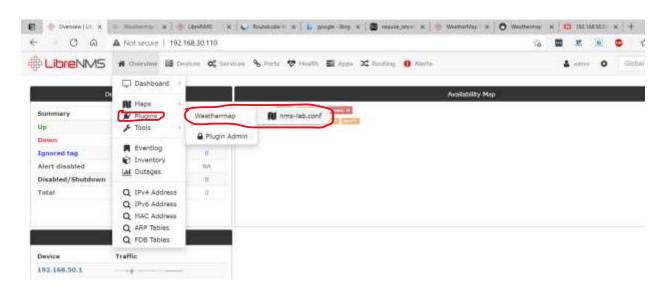












http://Librenms-IP/plugins/Weathermap/output/nms-lab.html

